

### INTERNATIONAL SEARCH REPORT

International application No. PCT/US99/28666

A. CLASSIFICATION OF SUBJECT MATTER  IPC(6) :C08F 18/14, 118/14, 218/14; C08J 3/28, 5/00						
US CL :526/238.1, 238.2; 424/78.08, 78.37						
	According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED					
		by classification symbols)				
	Minimum documentation searched (classification system followed by classification symbols)  U.S.: 526/238.1, 238.2; 424/78.08, 78.37					
Do sum satet	ion searched other than minimum documentation to the	extent that such documents are included	in the fields searched			
Documentat	ion searched other than imminum documentation to the		In the ricids sometime			
Electronic d	ata base consulted during the international search (nar	ne of data base and, where practicable,	search terms used)			
C. DOC	UMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.			
A	US 5,630,978 A (DOMB) 20 May 199	7.	1-65			
A	1-65					
Α	US 4,749,647 A (THOMAS et al) 07	1-65				
•						
[						
Furti	ner documents are listed in the continuation of Box C	See patent family annex.				
· ·	pecial categories of cited documents:	"T" later document published after the int date and not in conflict with the applic	ation but cited to understand the			
	cument defining the general state of the art which is not considered be of particular relevance	principle or theory underlying the inv "X" document of particular relevance; th				
	rlier document published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be considered when the document is taken alone	ered to involve an inventive step			
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other		"Y" document of particular relevance; th	e claimed invention cannot be			
· ·	ectal reason (as specified) ocument referring to an oral disclosure, use, exhibition or other means	considered to involve an inventive combined with one or more other suc	step when the document is the documents, such combination			
	ocument published prior to the international filing date but later than e priority date claimed	being obvious to a person skilled in to "&" document member of the same paten				
Date of the	actual completion of the international search	Date of mailing of the international sea	arch report			
16 FEBR	UARY 2000	17MAR 2000				
Name and	mailing address of the ISA/US	Authorized officer	1 (1/1/1			
Box PCT	oner of Patents and Trademarks	BERNARD LIPMAN LLY	hullhelle			
1	n, D.C. 20231 No. (703) 305-3230	Telephone No. (703) 308-0661				

### FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
ΑU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	· GN	Guinea	MK	The former Yugoslav	TM	Turkmenistan
BF	Burkina Faso	GR	Greece		Republic of Macedonia	TR	Turkey
BG	Bulgaria	HU	Hungary	ML	Mali	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MN	Mongolia	UA	Ukraine
BR	Brazil	IL	Israel	MR	Mauritania	UG	Uganda
BY	Belarus	IS	Iceland	MW	Malawi	US	United States of America
CA	Canada	IT	Italy	MX	Mexico	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NE	Niger	VN	Vict Nam
CG	Congo	KE	Kenya	NL	Netherlands	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NO	Norway	zw	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's	NZ	New Zealand		
CM	Cameroon		Republic of Korea	PL	Poland		
CN	China	KR	Republic of Korea	PT	Portugal		
CU	Cuba	KZ	Kazakstan	RO	Romania		
CZ	Czech Republic	LC	Saint Lucia	RU	Russian Federation		
DE	Germany	LI	Liechtenstein	SD	Sudan		
DK	Denmark	LK	Sri Lanka	SE	Sweden		
EE	Estonia	LR	Liberia	SG	Singapore		

## PATENT COOPERATION TREATY

## **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT OCT 2000

WIPO

PCT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 18422-3PC	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No.	International filing date (day/mor	nth/year) Priority date (day/month/year)
PCT/US99/28666	03 DECEMBER 1999	04 DECEMBER 1998
International Patent Classification (IPC) of Please See Supplemental Sheet.	or national classification and IPC	
Applicant MOSAIC TECHNOLOGIES, INC.		·
This international preliminary     Authority and is transmitted	examination report has been pr to the applicant according to A	epared by this International Preliminary Examining Article 36.
2. This REPORT consists of a	total of sheets.	
been amended and are th	panied by ANNEXES, i.e., sheets to basis for this report and/or sheet tion 607 of the Administrative In	s of the description, claims and/or drawings which have ets containing rectifications made before this Authority. structions under the PCT).
These annexes consist of a to	otal of <u>C</u> sheets.	
3. This report contains indication	s relating to the following iten	ns:
I X Basis of the repo	rt	
II Priority		
· ——	of report with regard to nove	elty, inventive step or industrial applicability
		,
IV Lack of unity of		de control inventive etch or industrial applicability:
V X Reasoned statement citations and expl	anations supporting such statement	rd to novelty, inventive step or industrial applicability; ent
VI Certain documents	cited	
VII Certain defects in	the international application	
VIII Certain observatio	ns on the international applicatio	n
_		
Date of submission of the demand	Date	of completion of this report
30 JUNE 2000	27	AUGUST 2000
Name and mailing address of the IPEA	· /7	rized officer
Commissioner of Patents and Trader Box PCT	marks BI	ERNARD LIPMAN (19/1) (MEC)
Washington, D.C. 20231 Facsimile No. (703) 305-3230	(Teleph	none No. (703) 308-0661



## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/28666

Note   None	X	the internation the description pages	nal application as		
the international application as originally filed  the description:     pages	X	the internation the description pages	nal application as	ational application:*	
the description: pages   1-39	X	the description			
pages   1-39		pages	ж.		
pages NONE	[x]	20000	1-39		, as originally filed
the claims:     pages	$\overline{\mathbf{x}}$	r-5~3	NONE		, filed with the demand
X the claims:   pages	x	pages	NONE	, filed with the letter of	
pages NONE , as amended (together with any statement) under Article 1 pages NONE , filed with the letter of filed with the demand pages NONE , filed with the letter of filed with the demand pages NONE , filed with the letter of filed with the demand pages NONE , filed with the letter of filed with the demand pages NONE , filed with the letter of filed with the demand pages NONE , filed with the letter of , as originally filed pages NONE , filed with the letter of , as originally filed pages NONE , filed with the letter of , filed with the demand pages NONE , filed with the letter of , as originally filed pages NONE , filed with the letter of , as originally filed pages NONE , filed with the letter of , as originally filed with regard to the language, all the elements marked above were available or furnished to this Authority in the language in whice These elements were available or furnished to this Authority in the following language whice the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). The language of publication of the international application (under Rule 48.3(b)).  The language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and or 55.3).  With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:  contained in the international application in printed form.  filed together with the international application in computer readable form.	$\mathbf{x}$				
pages NONE , as amended (together with any statement) under Article I pages NONE , filed with the letter of , filed with the demand NONE , filed with the letter of , filed with the demand pages NONE , as originally filed with the letter of , filed with the demand pages NONE , filed with the letter of , filed with the demand pages NONE , filed with the letter of , filed with the demandages of the sequence is the sequence of the sequence of the sequence letter of , filed with the demandages of the international application in printed form.  The sequence is the sequence of the sequence of the sequence is the sequence of the sequence of the international application in printed form.  The sequence is the sequence of the sequence of the sequence of the international application in printed form.			40.46		as originally filed
pages NONE , filed with the letter of			NOVE.	as amanded (teasther with arm	statement) under Article 10
the drawings:  pages NONE , filed with the letter of , as originally figures none is pages NONE , filed with the letter of , filed with the demandages NONE , filed with the letter of , as originally filed pages NONE , filed with the letter of , as originally filed pages NONE , filed with the letter of , filed with the demandages NONE , filed with the letter of , filed with the demandages NONE , filed with the letter of , filed with the demandages NONE , filed with the letter of  2. With regard to the language, all the elements marked above were available or furnished to this Authority in the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language whice the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and or 55.3).  3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international application in printed form. filed together with the international application in computer readable form.					, filed with the demand
the sequence listing part of the description:  pages NONE  NONE  pages NONE  NONE  pages N				filed with the letter of	
pages NONE , filed with the letter of , filed with the demandages NONE , filed with the letter of , filed with the demandages NONE , filed with the letter of , as originally filed pages NONE , filed with the letter of , as originally filed pages NONE , filed with the letter of , filed with the demandages NONE , filed with the letter of , filed with the demandages NONE , filed with the letter of , filed with the letter of  2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in with the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and or 55.3).  3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international application in printed form. filed together with the international application in computer readable form.		pages	.1011	, mea with the fetter of	
pages NONE , filed with the letter of , filed with the demandages NONE , filed with the letter of , filed with the demandages NONE , filed with the letter of , as originally filed pages NONE , filed with the letter of , as originally filed pages NONE , filed with the letter of , filed with the demandages NONE , filed with the letter of , filed with the demandages NONE , filed with the letter of , filed with the letter of  2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in with the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and or 55.3).  3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international application in printed form. filed together with the international application in computer readable form.		the drawings	:		
the sequence listing part of the description:  pages NONE  N	ك		NONE		, as originally file
The sequence listing part of the description:   pages			NONE		, filed with the demand
the language of the translation furnished for the purposes of international search (under Rule 23.1(b)).  the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and or 55.3).  With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international application was carried out on the basis of the sequence listing:  contained in the international application in printed form.  filed together with the international application in computer readable form.				, filed with the letter of	
pages NONE , as originally filed pages NONE , filed with the letter of	_				
pages NONE , filed with the letter of	X	the sequence	listing part of the	description:	as originally filed
pages NONE , filed with the letter of			NICANII		, filed with the demand
<ol> <li>With regard to the language, all the elements marked above were available or furnished to this Authority in the language in we the international application was filed, unless otherwise indicated under this item.         These elements were available or furnished to this Authority in the following language whice whice whice the language of a translation furnished for the purposes of international search (under Rule 23.1(b)) the language of publication of the international application (under Rule 48.3(b)) the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and or 55.3).</li> <li>With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international application in printed form filed together with the international application in computer readable form.</li> </ol>			NICANII	filed with the letter of	, , , , , ,
the international application was filed, unless otherwise indicated under under under under the term.  These elements were available or furnished to this Authority in the following language whice the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).  the language of publication of the international application (under Rule 48.3(b)).  the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and or 55.3).  With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:  contained in the international application in printed form.  filed together with the international application in computer readable form.					
<ul> <li>With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the internation preliminary examination was carried out on the basis of the sequence listing:</li> <li>contained in the international application in printed form.</li> <li>filed together with the international application in computer readable form.</li> </ul>		the language			
contained in the international application in printed form.  filed together with the international application in computer readable form.		•		for amino acid sequence disclosed in the internation	
filed together with the international application in computer readable form.	3. Wi	th regard to an eliminary exam	nination was carrie	ed out on the basis of the sequence fisting.	al application, the internationa
	3. W	eliminary exa	mination was carrie		al application, the internationa
1 1 turnioned adoptions to mile commercial in minutes	3. Wi	eliminary exam	mination was carrient the international a	application in printed form.	al application, the internationa
furnished subsequently to this Authority in computer readable form.	3. Wi	eliminary examonated in filed together	mination was carrie the international a er with the internat	application in printed form.  tional application in computer readable form.	al application, the internationa
Turnisned subsequently to this Authority in computer readule form.	3. Wi	eliminary examel contained in filed together furnished su	mination was carrie the international a er with the internat absequently to this	application in printed form.  Itional application in computer readable form.  S Authority in written form.	al application, the internationa
The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in international application as filed has been furnished.	3. Wi	eliminary examination of the contained in filed together furnished surnished surnished surnished surnished surnished surnished surnished surnished surnished	mination was carried the international a er with the internate absequently to this absequently to this	application in printed form.  ational application in computer readable form.  Authority in written form.  Authority in computer readable form.	
The statement that the information recorded in computer readable form is identical to the writen sequence listing been furnished.	3. Wi	contained in filed togethed furnished su furnished su The statemed international	mination was carried the international after with the internate absequently to this absequently to this and that the subsequently application as file	application in printed form.  ational application in computer readable form.  Authority in written form.  Authority in computer readable form.  auently furnished written sequence listing does not ged has been furnished.	go beyond the disclosure in the
4. X The amendments have resulted in the cancellation of:	3. Wipr	contained in filed together furnished su furnished su The statement international	mination was carried the international after with the international absequently to this absequently to this and that the subsequently application as file that the information	application in printed form.  ational application in computer readable form.  Authority in written form.  Authority in computer readable form.  auently furnished written sequence listing does not ged has been furnished.	go beyond the disclosure in the
X the description, pages NONE	pr	contained in filed togethed furnished su furnished su The stateme internationa  The stateme been furnish	mination was carried the international at the international absequently to this subsequently to this ent that the subsequently application as file that the information ed.	application in printed form.  ational application in computer readable form.  Authority in written form.  Authority in computer readable form.  uently furnished written sequence listing does not ged has been furnished.  ion recorded in computer readable form is identical to	go beyond the disclosure in the
TV	pr	contained in filed together furnished surplished surplished surplished surplished surplished furnished surplished furnished furnished furnished furnished furnished	mination was carried the international after with the international absequently to this subsequently to this application as file int that the information at the info	application in printed form.  ational application in computer readable form.  Authority in written form.  Authority in computer readable form.  uently furnished written sequence listing does not ged has been furnished.  ion recorded in computer readable form is identical to ed in the cancellation of:	go beyond the disclosure in the
Lie Claims, 1103.	pr	contained in filed togethed furnished su furnished su The stateme internationa The stateme been furnish The amend	mination was carried the international after with the international absequently to this subsequently to this ent that the subsequently application as file that the informational ments have resulted.	application in printed form.  ational application in computer readable form.  Authority in written form.  Authority in computer readable form.  Heartly furnished written sequence listing does not ged has been furnished.  Heartly form is identical to ded in the cancellation of:  NONE	go beyond the disclosure in the
X the drawings, sheets/fig NONE	pr	contained in filed together furnished surpling furnished surpling furnished surpling furnished surpling furnished surpling furnished statement been furnish.  The statement furnish furnish the amend in the statement furnish furnish furnish the discount furnish furnished surpling	the international at the international at the international at the with the international authority to this subsequently to this and that the subsequent application as file into that the informational authority to the into that the informational authority to this entitle that the informational authority to the information at the infor	application in printed form.  ational application in computer readable form.  Authority in written form.  Authority in computer readable form.  uently furnished written sequence listing does not ged has been furnished.  ion recorded in computer readable form is identical to ed in the cancellation of:  NONE  NONE  NONE  NONE  NONE	go beyond the disclosure in the the other writen sequence listing has
X the drawings, sheets/fig NONE  This report has been drawn as if (some of) the amendments had not been made, since they have been considered	pr	contained in filed togethed furnished su furnished su The statement been furnish The amend X the d X the d This report	mination was carried the international after with the international after with the international subsequently to this subsequently to this ent that the subsequent application as file that the informational that the information are in	application in printed form.  ational application in computer readable form.  Authority in written form.  Authority in computer readable form.  Heavily furnished written sequence listing does not get has been furnished.  High readable form is identical to the cancellation of:  NONE  NONE  NONE  NONE  IGHT NONE  IGHT STATE OF THE AUTHOR STATE OF	go beyond the disclosure in the the writen sequence listing has the writen sequence listing has the writen sequence to get they have been considered to g
the claims, 140s.	pr	contained in filed togethed furnished su furnished su The statement international The statement been furnished the contained This report beyond the splacement shee this report as	mination was carried the international after with the international after with the international authority to this subsequently to this subsequently to this ent that the subsequent application as file int that the information ed.  ments have resulted escription, pages laims, Nos rawings, sheets/fighas been drawn as it disclosure as filed,	application in printed form.  Intional application in computer readable form.  So Authority in written form.  So Authority in computer readable form.  In a In a Authority in computer readable form is identical to a In a I	to beyond the disclosure in the other writen sequence listing has the writen sequence listing has the they have been considered to go the sequence of the sequ



### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/28666

statement			
Novelty (N)	Claims	1-65	ΥE
Neverly (IV)	Claims	NONE	NC
Lauratina Stan (IS)	Claims	1-65	YE
Inventive Step (IS)	Claims	NONE	NC
Industrial Applicability (IA)	Claims	1-65	YE
Industrial Applicability (IA)	Claims	NONE	NO
NONE			



#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/28666

c	. nl	a m	an	tal	Box
<b>5</b> ui	odi	em	en	เลเ	DUX

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

CLASSIFICATION:

The International Patent Classification (IPC) and/or the National classification are as listed below: IPC(7): C08F 18/14, 118/14, 218/14; C08J 3/28, 5/00 and US C1.: 526/238.1, 238.2; 424/78.08, 78.37